

Industrial Mold Manufacturing: 2002

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2002 Economic Census

Manufacturing

Industry Series



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U.S. Department of Commerce
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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
333511, Industrial mold manufacturing 2002..	2 417	2 468	46 722	2 028 830	35 556	71 218	1 398 610	3 836 121	1 674 159	5 527 590	'262 775
2001..	N	N	45 494	1 964 270	35 849	74 527	1 360 388	3 382 366	1 406 183	4 862 576	222 584
2000..	N	N	49 895	2 182 870	39 798	82 891	1 540 363	4 034 818	1 558 303	5 595 265	344 044
1999..	N	N	50 789	2 120 867	40 372	83 164	1 498 204	3 933 905	1 515 720	5 384 416	396 433
1998..	N	N	48 931	2 072 760	38 630	84 072	1 472 716	3 842 416	1 408 129	5 195 019	371 366
1997..	2 475	2 520	48 113	2 067 403	37 989	81 290	1 471 899	3 685 924	1 411 514	5 087 422	357 109

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
333511, Industrial mold manufacturing												
United States	1	2 468	624	46 722	2 028 830	35 556	71 218	1 398 610	3 836 121	1 674 159	5 527 590	'262 775
Alabama	1	24	5	351	12 380	262	490	8 721	30 903	12 636	43 967	'4 652
Arizona	—	25	6	502	19 123	381	722	14 506	38 258	15 810	53 325	'2 473
Arkansas	2	18	—	117	4 043	84	137	2 760	7 966	2 004	9 786	'191
California	1	204	44	3 290	140 490	2 533	4 903	96 546	271 512	105 588	372 988	'31 359
Colorado	—	30	5	481	21 426	347	749	12 537	43 991	13 752	59 933	'3 825
Connecticut	—	50	8	624	33 135	426	845	20 544	56 052	19 763	75 239	'4 459
Florida	—	70	10	961	37 330	751	1 496	26 123	71 770	34 934	107 100	'2 658
Georgia	2	17	2	204	8 335	153	345	5 284	16 167	7 543	23 680	'5 304
Idaho	—	7	2	133	4 609	94	194	3 204	9 416	6 338	14 910	'383
Illinois	1	236	50	3 354	160 153	2 483	4 924	108 944	297 086	104 637	399 213	'18 056
Indiana	1	137	36	2 493	106 295	1 863	3 653	72 214	206 119	68 311	275 903	'12 512
Iowa	—	20	7	494	17 758	393	573	11 061	35 677	11 152	46 158	'2 324
Kansas	—	7	2	146	5 951	126	212	5 192	12 664	2 929	14 423	'828
Kentucky	—	37	10	864	26 577	653	1 191	17 858	87 739	35 819	128 952	'5 536
Massachusetts	2	68	20	1 747	80 595	1 237	2 603	46 925	133 900	86 566	222 787	'11 630
Michigan	1	312	103	7 580	388 067	5 623	11 695	268 640	727 750	291 456	1 017 964	'33 530
Minnesota	1	101	16	1 157	54 166	845	1 624	37 567	93 173	34 888	129 889	'5 832
Mississippi	4	8	2	135	3 865	98	185	2 680	7 302	3 594	11 027	'151
Missouri	—	45	14	1 061	48 205	800	1 673	30 680	93 359	27 276	119 975	'4 764
New Hampshire	1	18	3	226	9 362	163	285	5 921	13 991	4 312	18 174	'823
New Jersey	—	83	16	1 222	57 538	909	1 940	38 806	101 692	57 913	161 831	'6 515
New York	2	99	19	1 307	51 809	987	1 809	34 767	99 827	29 153	128 233	'4 951
North Carolina	—	39	12	702	32 930	563	1 261	24 277	63 591	35 309	91 430	'2 410
Ohio	1	254	78	5 204	232 307	4 010	8 282	167 784	409 659	165 157	578 058	'22 981
Oklahoma	1	16	4	585	14 355	507	1 117	10 530	38 960	37 601	76 758	'2 797
Oregon	—	29	5	319	11 873	236	408	8 287	23 405	7 652	31 161	'4 379
Pennsylvania	—	162	50	3 353	139 168	2 585	5 128	101 861	272 518	124 295	402 069	'17 810
Rhode Island	1	15	3	172	6 034	141	243	3 910	13 628	4 700	18 271	'180
South Carolina	—	17	6	606	29 188	423	771	17 121	48 042	21 580	71 703	'7 626
Tennessee	3	39	15	1 313	41 998	1 062	2 137	28 479	82 216	41 574	123 473	'3 414
Texas	—	63	21	2 309	72 405	1 917	4 052	50 108	122 682	149 683	284 257	'12 660
Virginia	—	15	5	267	8 630	194	359	5 983	24 731	9 809	35 424	'2 012
Washington	—	27	8	423	15 918	350	614	12 168	23 454	9 753	32 931	'4 293
Wisconsin	—	126	32	2 485	113 608	1 930	3 829	82 748	210 676	71 678	281 536	'18 016

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
333511, Industrial mold manufacturing	
Companies ¹	number.. 2 417
All establishments ²	number.. 2 468
Establishments with 1 to 19 employees	number.. 1 844
Establishments with 20 to 99 employees	number.. 562
Establishments with 100 employees or more	number.. 62
All employees ³	number.. 46 722
Total compensation	\$1,000.. 2 402 028
Annual payroll	\$1,000.. 2 028 830
Total fringe benefits	\$1,000.. 373 198
Production workers, average for year	number.. 35 556
Production workers on March 12	number.. 35 273
Production workers on May 12	number.. 36 011
Production workers on August 12	number.. 35 550
Production workers on November 12	number.. 35 287
Production worker hours	1,000.. 71 218
Production worker wages	\$1,000.. 1 398 610
Total cost of materials	\$1,000.. 1 674 159
Materials, parts, containers, packaging, etc., used	\$1,000.. 1 237 580
Resales	\$1,000.. 100 790
Purchased fuels	\$1,000.. 13 658
Purchased electricity	\$1,000.. 71 882
Contract work	\$1,000.. 250 249
Quantity of electricity purchased for heat and power	1,000 kWh.. 1 085 349
Quantity of electricity generated less sold for heat and power	1,000 kWh.. D
Total value of shipments	\$1,000.. 5 527 590
Primary products value of shipments	\$1,000.. 4 938 439
Secondary products value of shipments	\$1,000.. 279 429
Total miscellaneous receipts	\$1,000.. 309 722
Value of resales	\$1,000.. 146 531
Contract receipts	\$1,000.. 56 178
Other miscellaneous receipts	\$1,000.. 107 013
Primary products specialization ratio	percent.. 95
Value of primary products shipments made in all industries	\$1,000.. 5 859 480
Value of primary products shipments made in this industry	\$1,000.. 4 938 439
Value of primary products shipments made in other industries	\$1,000.. 921 041
Coverage ratio	percent.. 84
Value added	\$1,000.. 3 836 121
Total inventories, beginning of year	\$1,000.. 632 266
Finished goods inventories	\$1,000.. 131 302
Work-in-process inventories	\$1,000.. 385 705
Materials and supplies inventories	\$1,000.. 115 259
Total inventories, end of year	\$1,000.. 606 108
Finished goods inventories	\$1,000.. 119 456
Work-in-process inventories	\$1,000.. 380 241
Materials and supplies inventories	\$1,000.. 106 411
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '3 375 572
Total capital expenditures (new and used)	\$1,000.. '262 775
Buildings and other structures (new and used)	\$1,000.. '23 863
Machinery and equipment (new and used)	\$1,000.. '238 912
Automobiles, trucks, etc., for highway use	\$1,000.. '11 454
Computers and peripheral data processing equipment	\$1,000.. '27 033
All other expenditures for machinery and equipment	\$1,000.. '200 425
Total retirements	\$1,000.. '183 340
Gross value of depreciable assets at end of year	\$1,000.. '3 455 007
Depreciation charges during year	\$1,000.. '250 887
Total rental payments	\$1,000.. 147 288
Buildings and other structures	\$1,000.. 92 526
Machinery and equipment	\$1,000.. 54 762
Total other expenses ⁴	\$1,000.. 440 016
Response coverage ratio ⁵	percent.. 81
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 107 746
Communications services ⁴	\$1,000.. 19 522
Legal services ⁴	\$1,000.. 10 685
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 13 368
Advertising and promotional services ⁴	\$1,000.. 11 802
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 13 335
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 5 586
Management consulting and administrative services ⁴	\$1,000.. 12 763
Taxes and license fees ⁴	\$1,000.. 27 219
All other expenses ⁴	\$1,000.. 217 990

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
333511, Industrial mold manufacturing											
All establishments	1	2 468	46 722	2 028 830	35 556	71 218	1 398 610	3 836 121	1 674 159	5 527 590	'262 775
Establishments with—											
1 to 4 employees	8	867	1 614	70 514	1 281	2 474	49 994	124 679	42 435	167 455	'3 962
5 to 9 employees	2	424	2 984	126 917	2 186	4 037	90 551	224 069	80 808	302 852	'12 949
10 to 19 employees	1	553	7 651	319 600	5 633	10 205	225 746	573 445	194 884	770 599	'42 382
20 to 49 employees	1	405	12 268	546 305	9 435	18 377	378 199	1 001 126	363 129	1 368 992	'71 237
50 to 99 employees	—	157	10 941	500 686	8 484	17 905	352 449	950 631	421 126	1 373 876	'63 568
100 to 249 employees	1	54	7 810	324 732	5 921	12 415	216 076	659 658	309 427	960 411	'39 816
250 to 499 employees	—	7	h	D	D	D	D	D	D	D	D
500 to 999 employees	—	1	f	D	D	D	D	D	D	D	D
1,000 to 2,499 employees	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	778	1 478	64 033	1 192	2 330	45 221	114 618	37 991	152 060	'2 952

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
333511	Industrial mold manufacturing	2 468	46 722	2 028 830	35 556	71 218	1 398 610	3 836 121	1 674 159	5 527 590	'262 775
3335110	Industrial molds and mold boxes . . .	2 468	46 722	2 028 830	35 556	71 218	1 398 610	3 836 121	1 674 159	5 527 590	'262 775

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
333511	Industrial mold manufacturing	2002.. N	X	X	5 859 480
		1997.. N	X	X	5 715 142
33351101	Industrial molds made of metal, for die-casting of metal or metal carbides (except ingot molds), all types	2002.. N	X	X	655 383
		1997.. N	X	X	525 126
3335110101	Industrial molds made of metal, for low-pressure die-casting of metal or metal carbides (except ingot molds)	2002.. 112	X	X	193 797
		1997.. 104	X	X	141 207
3335110106	Industrial molds made of metal, for high-pressure die-casting of metal or metal carbides (except ingot molds)	2002.. 194	X	X	461 586
		1997.. 226	X	X	383 919
33351104	Industrial molds made of metal and other materials, excluding industrial injection or compression molds made of metal for plastics	2002.. N	X	X	1 207 018
		1997.. N	X	X	N
3335110411	Industrial permanent molds made of metal for gravity casting (except ingot molds)	2002.. 59	X	X	75 778
		1997.. N	X	X	N
3335110416	Other industrial molds made of metal for metal or metal carbides (except ingot molds)	2002.. 52	X	X	82 822
		1997.. N	X	X	N
3335110421	Industrial molds made of metal for wax	2002.. 56	X	X	75 916
		1997.. N	X	X	N
3335110426	Industrial molds made of metal for mineral materials	2002.. 12	X	X	16 164
		1997.. N	X	X	N
3335110431	Industrial molds made of metal for glass	2002.. 16	X	X	167 671
		1997.. N	X	X	N
3335110436	Industrial injection and compression-type molds made of metal for rubber	2002.. 116	X	X	297 847
		1997.. N	X	X	N
3335110441	Other industrial molds made of metal for rubber	2002.. 38	X	X	49 908
		1997.. N	X	X	N
3335110446	Industrial molds made of metal for other materials	2002.. 50	X	X	78 354
		1997.. N	X	X	N
3335110451	Industrial mold bases made of metal	2002.. 60	X	X	127 889
		1997.. N	X	X	N
3335110476	Industrial molds made of materials other than metal, for metal, metal carbides, glass, mineral materials, rubber, and plastics	2002.. 37	X	X	87 159
		1997.. N	X	X	N
3335110481	All other miscellaneous industrial molds made of materials other than metal	2002.. 45	X	X	95 540
		1997.. N	X	X	N
3335110486	Industrial mold boxes and flasks for use with patterns and sand molds in foundries	2002.. 24	X	X	51 970
		1997.. N	X	X	N
33351105	Industrial injection-type molds made of metal for plastics	2002.. N	X	X	3 372 523
		1997.. N	X	X	N
3335110556	Industrial injection-type molds made of metal for plastics	2002.. 1 159	X	X	3 010 332
		1997.. N	X	X	N
3335110558	Industrial compression-type molds (including matched metal molds) made of metal for plastics	2002.. 104	X	X	189 488
		1997.. N	X	X	N
3335110560	Other industrial molds (including transfer, plunger, and rotational molds) made of metal for plastics	2002.. 134	X	X	172 703
		1997.. N	X	X	N
3335110Y	Industrial molds and mold boxes, nsk, total	2002.. N	X	X	624 556
		1997.. N	X	X	472 683
3335110YWW	Industrial molds and mold boxes, nsk, for nonadministrative-record establishments	2002.. N	X	X	504 784
		1997.. N	X	X	350 317
3335110YWY	Industrial molds and mold boxes, nsk, for administrative-record establishments	2002.. N	X	X	119 772
		1997.. N	X	X	122 366

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. **Product Class Shipments for Selected States: 2002 and 1997**

[Not applicable for this report.]

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
333511	Industrial mold manufacturing		
00900001	Total materials .....2002..	X	1 237 580
	.....1997..	X	943 992
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	39 990
	.....1997..	X	26 294
33200095	Other fabricated metal products (excluding castings and forgings) .....2002..	X	81 425
	.....1997..	X	51 896
33210000	Forgings .....2002..	X	14 224
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	66 854
	.....1997..	X	52 290
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished) .....2002..	X	37 253
	.....1997..	X	24 534
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	188 522
	.....1997..	X	155 497
33120016	Steel sheet and strip (including tinplate) .....2002..	X	37 961
	.....1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	55 906
	.....1997..	X	41 681
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing .....2002..	X	9 569
	.....1997..	X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	25 215
	.....1997..	X	13 350
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	12 824
	.....1997..	X	3 769
33149200	Tungsten carbide metal powders .....2002..	X	D
	.....1997..	X	777
331000AC	All other metal powders .....2002..	X	2 742
	.....1997..	X	311
32799903	Industrial diamonds .....2002..	X	D
	.....1997..	X	1 955
001900B1	Electrical transmission, distribution, and control equipment .....2002..	X	17 830
	.....1997..	X	5 071
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds .....2002..	X	25 047
	.....1997..	X	10 951
00190090	Fluid power products .....2002..	X	12 137
	.....1997..	X	8 258
33351503	Cutting tools for machine tools .....2002..	X	28 064
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	289 981
	.....1997..	X	264 589
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	269 829
	.....1997..	X	282 769

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.